

King County DNRP Water Quality Index

STATION **S484** WATER YEAR **2018**

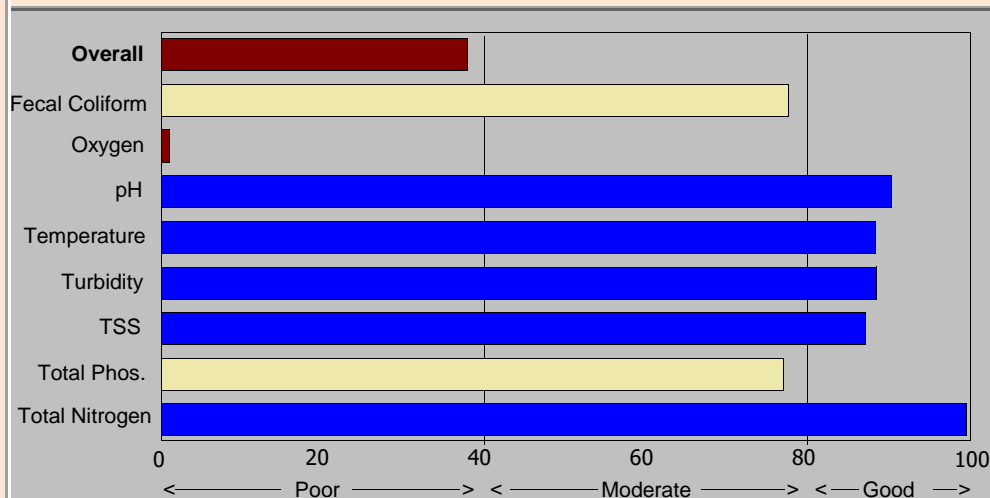
GAUGE # 18G Upper Evans at NE 50th

Overall Index 38

Station S484 is located at 50th Street, upstream from station B484. The Evans Creek sub-basin covers 9,800 acres and runs 8.2 miles before joining Bear Creek, which eventually empties into the Sammamish River in the City of Redmond. Water quality samples were collected at station S484 from 1981 to 2008 when budget cutbacks reduced the breadth of King County's water quality monitoring program. Sampling resumed in 2014. The Evans Creek valley contains widespread permeable gravel and sand fill, which allows it to absorb much of the water from local storm events. Land use in the watershed has changed markedly in the past 150 years as development in the area has increased. What was once primarily forest has become a mix of forest, grass, and impervious surfaces. Impaired water quality has become a growing concern due to low dissolved oxygen, high temperatures and high nutrients.

Annual Water Quality Index Scores

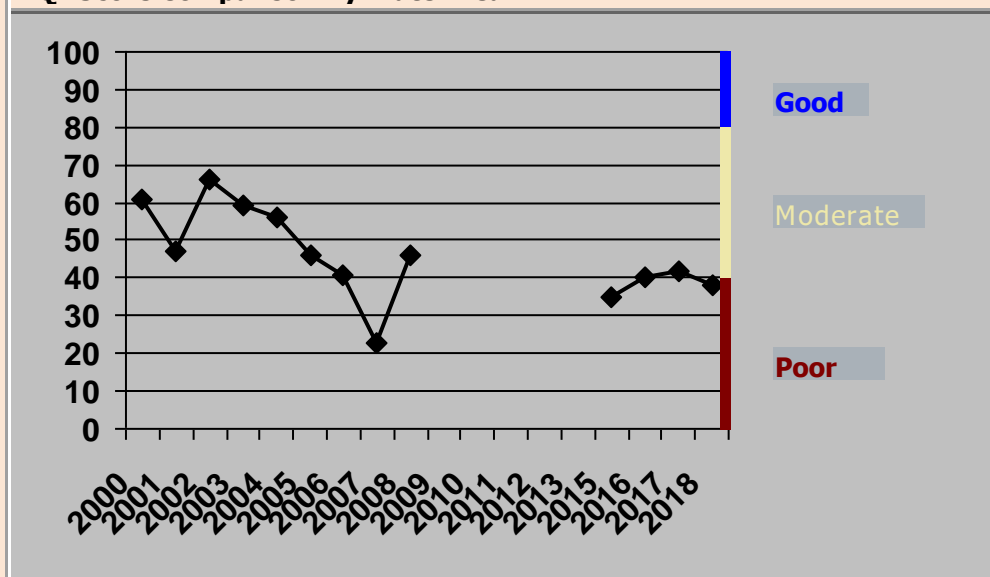
Water quality was POOR based on data collected 10/1/2017 to 9/30/2018.



Monthly Scores For Water Year 2018

| Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67 | 79 | 95 | 93 | 95 | 93 | 77 | 54 | 69 | 47 | 37 | 29 |

WQI Score Comparison By Water Year



About The Water Quality Index:

The Water Quality Index (WQI) score is a unit-less number ranging from 10 to 100: the higher the number, the higher the water quality. Scores are calculated from data collected during the monthly routine sampling. For temperature, pH, fecal coliform bacteria, turbidity, and dissolved oxygen, the index expresses results relative to levels required to maintain beneficial uses according to criteria in Washington's Water Quality Standards, WAC 173-201A. For nutrient and sediment measures where there are no standard, results are expressed relative to guidelines for this eco-region. Results from the eight parameters are aggregated over time to produce a single score for each sample station. In general, stations scoring 80 and above did not fail water quality standards or guidelines and are of "low concern", scores 40 to 80 indicate "moderate concern", and water quality at stations with scores below 40 are of "high concern". For more information about the WQI please visit <https://green2.kingcounty.gov/streamsdata/WQI.aspx>

For more information about this creek please visit our website at <http://green.kingcounty.gov/WLR/Waterres/StreamsData/streamlist.aspx>